

Amendments to the Claims

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

Claim 1 (Canceled)

Claim 2 (Currently Amended): A [[The]] ferroelectric capacitor of claim 1 comprising:

a bottom electrode;

a plurality of projection electrodes formed on the bottom electrode;

a ferroelectric layer formed on the bottom electrode and the projection electrodes; and

a top electrode formed on the ferroelectric layer,

wherein spacing between central portions of each projection electrode has a range from 10% to 20% of a size of the ferroelectric capacitor.

Claim 3 (Currently Amended): A [[The]] ferroelectric capacitor of claim 1 comprising:

a bottom electrode;

a plurality of projection electrodes formed on the bottom electrode;

a ferroelectric layer formed on the bottom electrode and the projection electrodes; and

a top electrode formed on the ferroelectric layer,
wherein a size of each projection electrode has a range from 5% to 10% of a size of the ferroelectric capacitor.

Claim 4 (Withdrawn – Currently Amended): The ferroelectric capacitor of claim 2 [[1]], wherein the top electrode includes a plurality of second projection electrodes ~~electrode~~, each of the plurality of second projection electrodes facing respective ones of the plurality of projection electrodes.

Claim 5 (Withdrawn – Currently Amended): The ferroelectric capacitor of claim 2 [[1]], wherein the projection electrodes are made of bismuth or bismuth alloy.

Claim 6 (Withdrawn): The ferroelectric capacitor of claim 5, wherein the bottom electrode is made of a metal which includes bismuth.

Claim 7 (Currently Amended): A ~~[[The]]~~ ferroelectric capacitor ~~of claim 4~~ comprising:
a bottom electrode;
a plurality of projection electrodes formed on the bottom electrode;
a ferroelectric layer formed on the bottom electrode and the projection
electrodes; and
a top electrode formed on the ferroelectric layer,

wherein the projection electrodes are arranged evenly spaced on the bottom electrode.

Claim 8 (Currently Amended): The ferroelectric capacitor of claim 2 [[1]], wherein the bottom electrode and the projection electrodes are made of a same material.

Claims 9 – 14 (Canceled)

Claim 15 (Withdrawn – Currently Amended): A ferroelectric capacitor comprising:

a first electrode;

a second electrode;

a ferroelectric layer which is sandwiched between the first electrode and the second electrode; and

a plurality of third electrodes formed evenly spaced between the first electrode and the second electrode, wherein the third electrodes generate polarization.

Claim 16 (Withdrawn): The ferroelectric capacitor of claim 15, wherein the third electrodes are formed on the first electrode.

Claim 17 (Canceled)

Claim 18 (Withdrawn): The ferroelectric capacitor of claim 16, wherein the first electrode and the third electrodes are made by a same material.

Claim 19 (Withdrawn): The ferroelectric capacitor of claim 16, wherein the third electrodes are formed on both the first and second electrodes.

Claim 20 (New): The ferroelectric capacitor of claim 3, wherein the top electrode includes a plurality of second projection electrodes, each of the plurality of second projection electrodes facing respective ones of the plurality of projection electrodes.

Claim 21 (New): The ferroelectric capacitor of claim 3, wherein the projection electrodes are made of bismuth or bismuth alloy.

Claim 22 (New): The ferroelectric capacitor of claim 21, wherein the bottom electrode is made of a metal which includes bismuth.

Claim 23 (New): The ferroelectric capacitor of claim 3, wherein the bottom electrode and the projection electrodes are made of a same material.

Claim 24 (New): The ferroelectric capacitor of claim 7, wherein the top electrode includes a plurality of second projection electrodes, each of the plurality of second

projection electrodes facing respective ones of the plurality of projection electrodes.

Claim 25 (New): The ferroelectric capacitor of claim 7, wherein the projection electrodes are made of bismuth or bismuth alloy.

Claim 26 (New): The ferroelectric capacitor of claim 25, wherein the bottom electrode is made of a metal which includes bismuth.

Claim 27 (New): The ferroelectric capacitor of claim 7, wherein the bottom electrode and the projection electrodes are made of a same material.